1972 INDEX OF ARTICLES PUBLISHED IN

MATERIALS ENGINEERING

INDEX OF FEATURE ARTICLES

ALUMINUM AND ITS ALLOYS

Aluminum coated sheet steel combats heat, corrosion--Feb, p 48
Conventional alloys solve cryogenic problems--Aug, p 22
Look of aluminum enlivened with finishes--Mar, p 53
Stampings offer wide choice of metals, design versatility--Mar, p 32
Wrought aluminum offers strength, holds down weight, curbs corrosion--Apr, p 61

CERAMICS, GLASS

Engineer's guide to silicon nitride--Jan, p 28

COATINGS, FINISHES

Aluminum coated sheet steel combats heat, corrosion--Feb, p 48
Coatings lubricate, fight abrasion and corrosion at the same time--Dec, p 48
Four case histories show effectiveness of ultrasonic cleaning--Nov, p 28
Guide to organic coatings--Aug, p 48
Handsome porcelain enamel takes indoor and outdoor abuse--June, p 24
How are plated plastics doing?--Nov, p 30
ME survey shows powder coatings popular--June, p 22
Metal coatings aid in bonding electronic parts--July, p 35
Primer on electrodeposited coatings--Jan, p 38
Put on a polyester surface for good looks, toughness, long life--Oct, p 48
Take a powder for clean air--May, p 52
Tantalum coatings upgrade products without breaking the budget--Apr, p 42
Tough vinyl organosols now are stain resistant--Sept, p 68

COBALT

What's new in superalloys--Dec, p 24

COMPOSITES

A sporting try for graphite fiber reinforced advanced composites--Oct, p 32
Directionally solidified eutectics: promising turbine materials--Dec, p 30
FEP laminates cut friction, costs--Jan, p 26
Plastic-lead-plastic laminates look good for containers--Dec, p 40

ELECTRIC AND ELECTRONIC PROPERTIES AND MATERIALS

Metal coatings aid in bonding electronic parts--Uuly, p 35
Microelectronics expanding into nonaerospace uses--Apr, p 27
Thermoplastics for load-bearing electrical applications--June, p 46
What's new in epoxy encapsulation--Sept, p 30

FORMING

Cold finished vs hot rolled bar--that is the question--May, p 32
Injection moldable rubbers: performance plus processability--Oct, p 32
Metals for small diameter tubing
Processing versatility comes to urethane elastomers and plastics--Feb, p 33
Stampings offer wide choice of metals, design versatility--Mar, p 32

HIGH TEMPERATURE PROPERTIES AND MATERIALS

Directionally solidified eutectics: promising turbine materials--Dec, p 30
Thermoplastics for load-bearing electrical applications--June, p 46

JOINING, FASTENING

Hot melt adhesives take seconds--Nov, p 74
How to test adhesive properties--Mar, p 60
36 new problem solving adhesives--Sept, p 80
Three welding processes make progress; one new joining technique joins welding world--June, p 59

MATERIALS APPLICATIONS

Automobile requirements meet head on with materials capabilities--Sept, p 52
How to select materials for noise control--Oct, p 60
Materials fight for home appliances--Feb, p 54
Materials key to better, lower cost housing--July, p 13
Materials meet challenge in mass and rapid transit--Dec, p 62
Modern materials for controlling machine noise--Oct, p 61

NICKEL

What's new in superalloys--Dec, p 24

NOISE CONTROL

How to select materials for noise control--Oct, p 60
Modern materials for controlling machine noise--Oct, p 61
Porous metals control sound, liquids, gases--Feb, p 22

PLASTICS

Engineer's guide to plastics--May, p 38
FEP laminates cut friction, costs--Jan, p 26
Fluoropolymers now are tougher and easier to process--Aug, p 30
How are plated plastics doing?--Nov, p 30
New developments in plastics for optical applications--Nov, p 42
Plastic-lead-plastic laminates look good for containers--Dec, p 40
Polypropylenes are better than ever--Apr, p 30
Processing versatility comes to urethane elastomers and plastics--Feb, p 33
The many bright ways to use acrylics--Mar, p 40
Thermoplastics for load-bearing electrical applications--June, p 42
What's new in epoxy encapsulation--Sept, p 30
What's new in nylons--July, p 50

RUBBER, ELASTOMERS

At low temperatures: which rubbers are flexible?--Dec, p 38
Conductive rubber: Corrosion hazard or corrosion inhibitor?--June, p 48
How to test rubber properties--May, p 62
Injection moldable rubbers: performance plus processability--Oct, p 32
Nitrile rubbers: How much better can they be?--June, p 42
Processing versatility comes to urethane elastomers and plastics--Feb, p 33

STEELS, IRON

Cold finished vs hot rolled bar--that is the question--May, p 32
How to specify carbon steel--Jan, p 19
Low alloy steels consistently break 80,000 psi barrier--Sept, p 21
Metals for small diameter tubing--Oct, p 24
Modern trends in ductile iron--Nov, p 56
Selecting spring materials--July, p 28
Stampings offer wide choice of metals, design versatility--Mar, p 32
Understanding soft magnetic alloys--June, p 34

SUPERALLOYS

What's new in superalloys--Dec, p 24

TESTING AND INSPECTION

Computers take over testing: result, more accurate data, faster--Sept, p 72
How to avoid pitfalls when evaluating corrosion resistance--Oct, p 54
How to test adhesive properties--Mar, p 60
How to test rubber properties--May, p 62
Impact testing: where do we go from here?--Apr, p 52
Look what holography can do--Nov, p 66
Measuring stresses you could never measure before--Aug, p 38
Seven NDT aerospace ideas help cut costs, improve product reliability--July, p 42
Simple test screens fire retardants--Dec, p 53
Testing and selecting wear resistant materials--Jan, p 46

Almand, P., and Byrd, R. New developments in plastics for optical applications--Nov, p 42

Bryant, P., Measuring stresses you could never measure before--Aug, p 38

Chepko, F.E., Cold finished vs hot rolled bar--that is the question--May, p 32

Eberly, W.S., Understanding soft magnetic alloys--June, p 34

Everhart, J.L., What's new in superalloys

Gambino, H.J., The many bright ways to use acrylics--Mar, p 40

Harris, W.J., Look what holography can do--Nov, p 66

Hauck, J.E., Automobile requirements meet head on with materials capabilities--Sept, p 52

Hodgsen, G.T., Conductive rubber: Corrosion hazard or corrosion inhibitor?--June, p 48

Ilardo, C.S., Simple test screens fire retardants--Dec, p 53

Kreins, W.J., Seven NDT aerospace ideas help cut costs, improve product reliability--July, p 42

Lacy, H.C., How to specify carbon steel--Jan, p 19

Langan, J.P., Metal coatings aid in bonding electronic parts--July, p 35

Larson, C., Selecting spring materials--July, p 28

Lindop, T.W., Engineer's guide to silicon nitride--Jan, p 28

Lovell, R.T., FEP laminates cut friction, costs--Jan, p 26

Lucas, R.M., How to select materials for noise control--Oct, p 60

Mazoh, M., Modern materials for controlling machine noise--Oct, p 61

McCormick, R.L., Jr., Tough vinyl organosols now are stain resistant--Sept, p 68

Miron, J., Skeist, I., Herrschaft, D.C., Plastic-lead-plastic laminates look good for containers--Dec, p 40

Miska, K.H., Conventional alloys solve cryogenic problems--Aug, p 22
Low alloy steels consistently break 80,000 psi barrier--Sept, p 21
Materials meet challenge in mass and rapid transit--Dec, p 62
Modern trends in ductile iron--Nov, p 56

Porous metals control sound, liquids, gases--Feb, p 22
Three welding processes make progress; one new joining technique joins welding world--June, p 59
Wrought aluminum offers strength, holds down weight, curbs corrosion--Apr, p 61

Mock, J.A., Aluminum coated sheet steel combats heat, corrosion--Feb, p 48
Computers take over testing: result, more accurate data, faster--Sept, p 72
Guide to organic coatings--Aug, p 48
Impact testing: where do we go from here?--Apr, p 52
Look of aluminum enlivened with finishes--Mar, p 53
Materials key to better, lower cost housing--July, p 18
Put on a polyester surface for good looks, toughness, long life--Oct, p 48
Take a powder for clean air--May, p 38

Mohler, J.B., How to avoid pitfalls when evaluating corrosion resistance--Oct, p 54
Primer on electrodeposited coatings--Jan, p 38

Rees, T.W., Metals for small diameter tubing--Oct, p 24

Richerson, D.W., Testing and selecting wear resistant materials--Jan, p 38

Vaccari, J.A., Materials fight for home appliances--Feb, p 54